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PHA 4200.1 (3090/5A)
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Ng et al.

Art Unit 1614

Serial No. 10/672,680

Filed September 26, 2003

Confirmation No. 9809

For PROCESSES FOR PREPARATION OF 9,11-EPOXY STEROIDS AND
INTERMEDIATES USEFUL THEREIN

January 7, 2004

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VIRGINIA 22313-1450

SIR:

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit the references listed on the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

The references listed on the attached PTO/SB/08A have been previously submitted in parent application Serial No. 09/923,977 and, therefore, in accordance with MPEP 609, are not being provided at this time.

This Information Disclosure Statement is being submitted pursuant to 37 C.F.R. §1.97(b) in that applicants believe that it is being filed prior to the mailing date of the first Office action on the merits. Accordingly, neither a statement nor fee under 37 C.F.R. §1.97(c) or (d) is required. However, if an Office action was issued prior to the date of mailing of this Information Disclosure Statement, the Commissioner is hereby

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Respectfully submitted,

Patricia K. Fitzsimmons

Patricia K. Fitzsimmons, Reg. No. 52,894
SENNIGER, POWERS, LEAVITT & ROEDEL
One Metropolitan Square, 16th Floor
St. Louis, Missouri 63102
(314) 231-5400

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PTO/63/08A INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/672,680
				Filing Date	September 26, 2003
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				First Named Inventor	Ng et al.
				Group Art Unit	1614
				Examiner Name	not yet assigned
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	1	3,053,856		Payne et al.	09-11-1962
	2	3,200,113		Christiansen et al.	08-10-1965
	3	3,300,489		Holden	01-24-1967
	4	3,413,288		Creger	11-26-1968
	5	3,759,791		Marsheck	09-18-1973
	6	3,897,417		Warnant et al.	07-29-1975
	7	3,972,878		Schirmann et al.	08-03-1976
	8	4,096,219		Weier	01-17-1978
	9	4,118,488		Philippson et al.	10-03-1978
	10	4,270,994		Behling	06-02-1981
	11	4,559,332		Grob et al.	12-17-1985
	12	5,565,588		Batist et al.	10-15-1996
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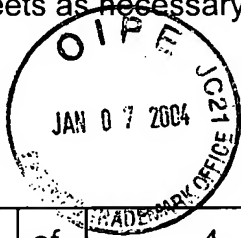
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FOREIGN PATENT DOCUMENTS							
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		Office	Number ⁴	Kind Code ² (if known)			
	14	DE	2349022		Schering AG	04-10-1975	
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	19	EP	0123734	A1	Gist Brocades NV	11-07-1984	
	20	EP	0165902	A1	Ciba Geigy AG	12-27-1985	
	21	WO	97/21720		Searle & Co.	06-19-1997	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	22	Abstract 084228, "Hydroxylated Androstane Production From Sterols", Chemical Abstracts, March 12, 1984, pages 430, Volume 100, Number 11	
	23	ARIAS, L. et al., "Epoxidation of Alkenes with Trichloroacetonitrile/Hydrogen Peroxide in a Neutral Biphasic Solvent System", <i>Journal of Organic Chemistry</i> , 1983, pages 888-890, Volume 48	
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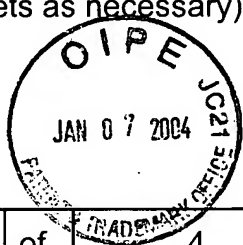
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	25	BROWN, Edward A. et al., "Steroidal Aldosterone Blockers VII", <i>Journal of Medicinal Chemistry</i> , 1963, pages 732-735, Volume 6	
	26	CARRUTHERS, N. et al., "Synthesis of Corticoids from 9 α -Hydroxyandrost-4-ene-8,17-dione", <i>Journal of Organic Chemistry</i> , 1992, pages 961-965, Volume 57	
	27	CHRISTIANSEN, R. et al., "The Reaction of Steroidal 4,6-dien-3-ones with Cyanide", <i>Steroids</i> , June 1963, pages 620-627, Volume 1, Number 6	
	28	Database WPI, Section Ch, Week 8145, Derwent Publications, Ltd., London, GB, Class B01, AN 81-82258D	
	29	DEGASPARO, M. et al., "Antialdosterones: Incidence and Prevention of Sexual Side Effects", <i>Journal of Steroid Biochemistry</i> , 1989, pages 223-227, Volume 32, Number 13	
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	36	NAGATA, W. et al., "Hydrocyanation, VI. Application of the New Hydrocyanation Methods to Conjugate Hydrocyanation of α,β -Unsaturated Ketones, Conjugated Dienones, and Conjugated Enamines and to Preparation of α -Cyanohydrins", <i>Journal of the American Chemical Society</i> , 1972, pages 4654-4672, Volume 94:13	

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	37	NICKISCH, K. et al., "Aldosterone Antagonists. 3. Synthesis and Activities of Steroidal 7 α -(Aldoxycarbonyl)-15,16-Methylene Spirolactones", <i>Journal of Medicinal Chemistry</i> , February 1990, pages 509-513, Volume 33, Number 2	
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	43	VAN LEUSEN, D. et al., "Chemistry of Sulfonylmethyl Isocyanides. 33. Synthesis of 17-(isocyanotosylmethylene) Steroids: Precursors to Pregnane Derivatives", <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , October 1991, pages 393-401, Volume 110, Number 10	
	44	WEIER, R.M. et al., "7 α -Carboalkoxy Steroidal Spirolactones as Aldosterone Antagonists", <i>Journal of Medicinal Chemistry</i> , August 1975, pages 817-821, Volume 18, Number 8	

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